

Gefen

4x4 Component w/Audio Matrix

EXT-COMPAUD-44424

User Manual



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INTRODUCTION

Congratulations on your purchase of the 4x4 Component w/Audio Matrix. Your complete satisfaction is very important to us.

Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

The Gefen 4x4 Component w/Audio Matrix

The Gefen 4x4 Component w/Audio Matrix offers unprecedented flexibility and convenience by routing high definition video and analog/digital audio from any of four sources to any of 4 local displays and audio reproduction equipment.

Full High-Resolution HDTV signals are supported up to a resolution of 1080p. The Gefen 4x4 Component w/Audio Matrix works with any Component Video source including DVD players, cable boxes, and satellite set-top boxes that connect to a Component display. Every source is accessible at all times by any display by selecting it with the IR remote.

How It Works

Connect up to 4 local Component AV sources to the Matrix's inputs. Connect the outputs to up to 4 Component displays and audio receivers, plug in the power supply, and crisp, vibrant video with audio will appear at the chosen locations.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE 4X4 COMPONENT W/AUDIO MATRIX

- The 4x4 Component Audio Matrix is housed in a metal box for better RF shielding.
- The 4x4 Component Audio Matrix works with all component displays.

FEATURES

Features

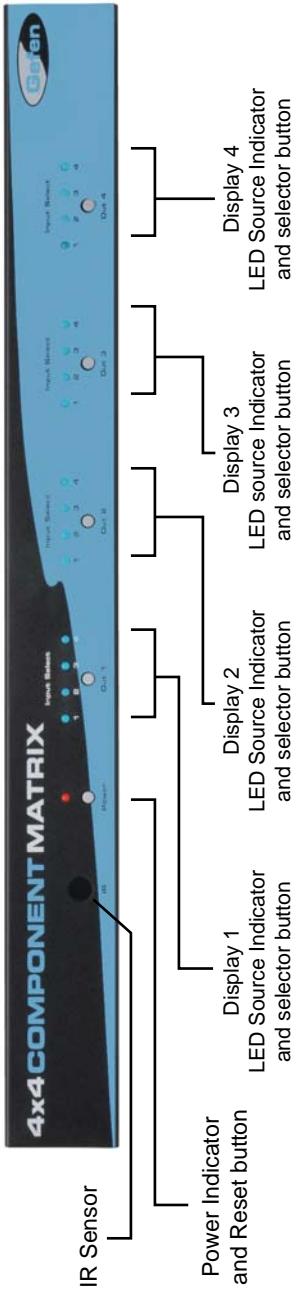
- Switches easily between any four component/audio sources
- Sends up to four video inputs to any four remote displays
- Maintains 1080p, and 2k resolution video
- Discrete IR remote (included)
- Serial RS-232 remote port (for unattended control)
- Rack ears included
- Specifications:

Package Includes

- (1) 4x4 Component w/Audio Matrix
- (4) 6-foot 5 RCA Component Audio/Video cables
- (1) 24V DC Power Supply
- (1) Rack Ears
- (1) User's Manual

PANEL LAYOUT

Front Panel



Back Panel

- 1 -

Component and Analog/Digital Component and Analog/Digital Component and Analog/Digital
Audio Output 4 Audio Output 2 Audio Input 4
Audio Output 4 Audio Output 2 Audio Input 2

RS232 Controller Port

Connects to 12VDC Power Supply

CONNECTING AND OPERATING THE 4X4 COMPONENT W/AUDIO MATRIX

How to Connect the 4x4 Component w/Audio Matrix

1. Connect up to 4 component video/audio sources to the 4x4 Component w/Audio Matrix inputs using the supplied 5 RCA analog stereo audio cable. Optionally, connect digital coaxial audio to the 4x4 Component w/Audio Matrix using a user supplied digital coaxial cable.
2. Connect up to 4 component video displays to the 4x4 Component w/Audio Matrix outputs using user supplied component cables.
3. Connect analog/digital audio outputs on the 4x4 Component w/Audio Matrix to either the component displays or a separate audio receiver.
4. Connect the included 24V DC power supply to the 4x4 Component w/Audio Matrix.

How to Connect the 4x4 Component w/Audio Matrix

Routing of video to displays is done using either the included RMT-16-IR remote control or the direct select buttons located on the front panel of the 4x4 Component w/Audio Matrix.

Using the RMT-16-IR remote control

The RMT-16-IR remote control uses 16 buttons to select 1 of 4 sources for each display to view. Each output display has a grouping of 4 buttons allocated for selecting each source. Use the chart below to route video to your desired display.

RMT-16-IR Button	Display	Source
1	1	1
2	1	2
3	1	3
4	1	4
5	2	1
6	2	2
7	2	3
8	2	4

RMT-16-IR Button	Display	Source
9	3	1
10	3	2
11	3	3
12	3	4
13	4	1
14	4	2
15	4	3
16	4	4

Using the Direct Source Buttons

Each display output on the 4x4 Component w/Audio Matrix has a push-button located on the front panel. Pressing this button will cycle through the 4 source inputs. Press the button for each display repeatedly to select the desired source for viewing on that display.

RMT-16-IR REMOTE INSTALLATION

1. Remove battery cover from the back of the RMT-16-IR remote.
2. Verify that dip switches 1 & 2 are in the down (OFF) position.
3. Insert the battery, hold the battery so that you can see the positive side facing up. The side that is not marked must be facing down.
4. Test the RMT-16-IR remote by pressing ONLY one button at a time. The indicator light on the remote will flash once each time you press a button.

WARNING: Do not press multiple buttons simultaneously and do NOT press buttons rapidly. These actions will cause the remote to reset and steps 1-4 will have to be repeated.

NOTE: The RMT-16-IR ships with two batteries. One battery is required for operation, the second battery is complimentary.



RS-232 SERIAL CONTROL INTERFACE



Only Pins 2 (RX), 3 (TX), and 5 (Ground) are used on the RS-232 serial interface

Binary Table

ASCII	Corresponding RMT16-IR Button	Binary	ASCII	Corresponding RMT16-IR Button	Binary
1	1	0011 0001	9	9	0011 1001
2	2	0011 0010	a	10	0110 0001
3	3	0011 0011	b	11	0110 0010
4	4	0011 0100	c	12	0110 0011
5	5	0011 0101	d	13	0110 0100
6	6	0011 0110	e	14	0110 0101
7	7	0011 0111	f	15	0110 0110
8	8	0011 1000	g	16	0110 0111

RS232 Settings

Bits per second	19200
Data bits	8
Parity	None
Stop bits	1
Flow Control	None

RACK MOUNT INSTALLATION

Rack mount ears are provided for installation of this unit into a 1U rack mount space.

1. Locate the side screws on the unit.
2. Remove the front 2 screws that are located closest to the front of the unit.
3. Using the removed screws, screw the rack mounting bracket into the unit.
4. Repeat the procedure on the opposite side of the unit.



SPECIFICATIONS

Video Amplifier Bandwidth	350 MHz
Input Video Signal	1.2 Volts p-p
Video Resolution	1080p
Video Connector	RCA-style RGB x 3
Analog Audio Connector	RCA-style L + R (Stereo)
Digital Audio Connector	S/PDIF Coax. in/out
Remote Control Port	RS232 female
Power Supply Sender	24V DC (60 Watts)
Dimensions	17"W x 3.5"H x 5.875"D
Shipping Weight	8 lbs.